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US Patents Full-Text Database
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EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

L9

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Search History

DATE: Tuesday, November 21, 2006 [Purge Queries](#) [Printable Copy](#) [Create Case](#)

Set Name Query**Hit Count Set Name**
result set**side by side***DB=USPT; PLUR=YES; OP=ADJ***L9** L6 and terephthalic acid

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L9*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ***L8** L7 and terephthalic acid.ti.

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L8**L7** L6 and terephthalic acid

59

L7**L6** L5 and acetic acid

61

L6**L5** L4 and 562/\$

61

L5**L4** carboxybenzaldehyde and L3

72

L4**L3** L2 and nickel and bromi\$6 and manganese

555

L3**L2** aromatic carboxylic acid and xylene and oxygen

3253

L2**L1** aromatic carboxylic acid and xylene and oxygen

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L1**END OF SEARCH HISTORY**

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1. Document ID: US 7098360 B2

L9: Entry 1 of 29

File: USPT

Aug 29, 2006

US-PAT-NO: 7098360

DOCUMENT-IDENTIFIER: US 7098360 B2

TITLE: Processes employing multiple successive chemical reaction process steps and apparatus therefore

→ PRIOR-PUBLICATION:

DOC-ID DATE

US 20040013587 A1 January 22, 2004

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn D](#)

2. Document ID: US 6765113 B2

L9: Entry 2 of 29

File: USPT

Jul 20, 2004

US-PAT-NO: 6765113

DOCUMENT-IDENTIFIER: US 6765113 B2

TITLE: Production of aromatic carboxylic acids

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn D](#)

3. Document ID: US 6649791 B2

L9: Entry 3 of 29

File: USPT

Nov 18, 2003

US-PAT-NO: 6649791

DOCUMENT-IDENTIFIER: US 6649791 B2

TITLE: Process for the preparation of an aromatic carboxylic acid

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn D](#)

4. Document ID: US 6642407 B2

L9: Entry 4 of 29

File: USPT

Nov 4, 2003

US-PAT-NO: 6642407

DOCUMENT-IDENTIFIER: US 6642407 B2

TITLE: Production, purification and polymerization of aromatic dicarboxylic acids

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KWMC](#) [Drawn D](#) 5. Document ID: US 6506931 B1

L9: Entry 5 of 29

File: USPT

Jan 14, 2003

US-PAT-NO: 6506931

DOCUMENT-IDENTIFIER: US 6506931 B1

** See image for Certificate of Correction **TITLE: Process for producing aromatic carboxylic acid[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KWMC](#) [Drawn D](#) 6. Document ID: US 6194607 B1

L9: Entry 6 of 29

File: USPT

Feb 27, 2001

US-PAT-NO: 6194607

DOCUMENT-IDENTIFIER: US 6194607 B1

** See image for Certificate of Correction **TITLE: Method of producing aromatic carboxylic acids by oxidizing alkyl aromatic hydrocarbons or partially oxidized intermediates thereof[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KWMC](#) [Drawn D](#) 7. Document ID: US 6180822 B1

L9: Entry 7 of 29

File: USPT

Jan 30, 2001

US-PAT-NO: 6180822

DOCUMENT-IDENTIFIER: US 6180822 B1

** See image for Certificate of Correction **TITLE: Method of producing aromatic carboxylic acids by oxidizing alkyl aromatic compounds or partially oxidized intermediates thereof with carbon dioxide containing gas[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KWMC](#) [Drawn D](#) 8. Document ID: US 6175038 B1

L9: Entry 8 of 29

File: USPT

Jan 16, 2001

US-PAT-NO: 6175038

DOCUMENT-IDENTIFIER: US 6175038 B1

**** See image for Certificate of Correction ******TITLE: Method of producing aromatic carboxylic acids by oxidizing alkyl aromatic compounds or partially oxidized intermediates thereof with oxygen-enriched gas**[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn D](#) 9. Document ID: US 6143925 A

L9: Entry 9 of 29

File: USPT

Nov 7, 2000

US-PAT-NO: 6143925

DOCUMENT-IDENTIFIER: US 6143925 A

TITLE: Process for producing aromatic carboxylic acid[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn D](#) 10. Document ID: US 5756833 A

L9: Entry 10 of 29

File: USPT

May 26, 1998

US-PAT-NO: 5756833

DOCUMENT-IDENTIFIER: US 5756833 A

**** See image for Certificate of Correction ******TITLE: Catalytic purification and recovery of dicarboxylic aromatic acids**[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn D](#)[Clear](#) [Generate Collection](#) [Print](#) [Fwd Refs](#) [Bkwd Refs](#) [Generate OACS](#)

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11. Document ID: US 5705682 A

L9: Entry 11 of 29

File: USPT

Jan 6, 1998

US-PAT-NO: 5705682

DOCUMENT-IDENTIFIER: US 5705682 A

TITLE: Process for producing terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Drawn D
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12. Document ID: US 5679847 A

L9: Entry 12 of 29

File: USPT

Oct 21, 1997

US-PAT-NO: 5679847

DOCUMENT-IDENTIFIER: US 5679847 A

TITLE: Process for producing terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Drawn D
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13. Document ID: US 5663428 A

L9: Entry 13 of 29

File: USPT

Sep 2, 1997

US-PAT-NO: 5663428

DOCUMENT-IDENTIFIER: US 5663428 A

TITLE: Method for producing aromatic carboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Drawn D
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14. Document ID: US 5616792 A

L9: Entry 14 of 29

File: USPT

Apr 1, 1997

US-PAT-NO: 5616792

DOCUMENT-IDENTIFIER: US 5616792 A

** See image for Certificate of Correction **

TITLE: Catalytic purification of dicarboxylic aromatic acid

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

15. Document ID: US 5453538 A

L9: Entry 15 of 29

File: USPT

Sep 26, 1995

US-PAT-NO: 5453538

DOCUMENT-IDENTIFIER: US 5453538 A

** See image for Certificate of Correction **

TITLE: Process for the manufacture of aromatic dicarboxylic acids utilizing cerium to facilitate a low bromine to metals catalyst ratio

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

16. Document ID: US 5362908 A

L9: Entry 16 of 29

File: USPT

Nov 8, 1994

US-PAT-NO: 5362908

DOCUMENT-IDENTIFIER: US 5362908 A

** See image for Certificate of Correction **

TITLE: Catalyst and method for purifying crude terephthalic acid, isophthalic acid or naphthalene dicarboxylic acid

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

17. Document ID: US 5354898 A

L9: Entry 17 of 29

File: USPT

Oct 11, 1994

US-PAT-NO: 5354898

DOCUMENT-IDENTIFIER: US 5354898 A

TITLE: Method for purifying crude aromatic carboxylic acids

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

18. Document ID: US 4892970 A

L9: Entry 18 of 29

File: USPT

Jan 9, 1990

US-PAT-NO: 4892970

DOCUMENT-IDENTIFIER: US 4892970 A

TITLE: Staged aromatics oxidation in aqueous systems

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D.](#)

19. Document ID: US 4853479 A

L9: Entry 19 of 29

File: USPT

Aug 1, 1989

US-PAT-NO: 4853479

DOCUMENT-IDENTIFIER: US 4853479 A

**** See image for Certificate of Correction ****

TITLE: Process for the manufacture of aromatic dicarboxylic acids and derivatives thereof

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D.](#)

20. Document ID: US 4827025 A

L9: Entry 20 of 29

File: USPT

May 2, 1989

US-PAT-NO: 4827025

DOCUMENT-IDENTIFIER: US 4827025 A

TITLE: Process for the production of aromatic carboxylic acids

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21. Document ID: US 4587355 A

L9: Entry 21 of 29

File: USPT

May 6, 1986

US-PAT-NO: 4587355

DOCUMENT-IDENTIFIER: US 4587355 A

** See image for Certificate of Correction **

TITLE: Oxidation with a solid catalyst

22. Document ID: US 4330676 A

L9: Entry 22 of 29

File: USPT

May 18, 1982

US-PAT-NO: 4330676

DOCUMENT-IDENTIFIER: US 4330676 A

** See image for Certificate of Correction **

TITLE: Oxidation process

23. Document ID: US 4323699 A

L9: Entry 23 of 29

File: USPT

Apr 6, 1982

US-PAT-NO: 4323699

DOCUMENT-IDENTIFIER: US 4323699 A

TITLE: Oxidation of substituted aromatic compounds to aromatic carboxylic acids

24. Document ID: US 4317919 A

L9: Entry 24 of 29

File: USPT

Mar 2, 1982

US-PAT-NO: 4317919

DOCUMENT-IDENTIFIER: US 4317919 A

TITLE: Recovery of bromine from effluent gases in the oxidation of substituted aromatics to form aromatic carboxylic acids

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KWMC](#) | [Drawn D](#)

25. Document ID: US 4314073 A

L9: Entry 25 of 29

File: USPT

Feb 2, 1982

US-PAT-NO: 4314073

DOCUMENT-IDENTIFIER: US 4314073 A

TITLE: Process for the production of an aromatic dicarboxylic acid

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26. Document ID: US 4258227 A

L9: Entry 26 of 29

File: USPT

Mar 24, 1981

US-PAT-NO: 4258227

DOCUMENT-IDENTIFIER: US 4258227 A

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TITLE: Short residence hydropyrolysis of residues from aromatic carboxylic acid manufacture

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KWMC](#) | [Drawn D](#)

27. Document ID: US 4258209 A

L9: Entry 27 of 29

File: USPT

Mar 24, 1981

US-PAT-NO: 4258209

DOCUMENT-IDENTIFIER: US 4258209 A

TITLE: Process for preparing terephthalic acid

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28. Document ID: US 4211882 A

L9: Entry 28 of 29

File: USPT

Jul 8, 1980

US-PAT-NO: 4211882

DOCUMENT-IDENTIFIER: US 4211882 A

TITLE: Process for producing terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Drawn D.
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29. Document ID: US 4202797 A

L9: Entry 29 of 29

File: USPT

May 13, 1980

US-PAT-NO: 4202797

DOCUMENT-IDENTIFIER: US 4202797 A

TITLE: Recovering catalyst values in reaction liquors from oxidative production of carboxylic and polycarboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Drawn D.
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